

ARL 01-28

Amendments to the Claims:

This listing of Claims will replace all prior versions and listings of Claims in the Application.

Listing of Claims:

Please Amend the Claims as Follows:

Claim 1 (currently amended): A cathode material for a lithium battery, said cathode material comprising, on a weight basis:

a first component which is an oxide or a sulfide of a metal, said first component being capable of intercalating lithium, said first component being present in an amount which is equal to or greater than 20% 35%, and up to 80 45%;

a second component which comprises carbon, said second component being an electroactive catalyst which is capable of reducing oxygen, said second component being present in an amount of 10-80 22-28%; and

a binder which is present in an amount of 5 30-40%.

Claims 2-3 (cancelled)

Claim 4 (original): The cathode material of claim 1, wherein said first component is selected from the group consisting of: MnO₂, CoO₂, NiO₂, LiCoO₂, LiMn₂O₄, LiNiO₂, MoS₂, TiS₂, and combinations thereof.

Claim 5 (original): The cathode material of claim 1, wherein said second component comprises high surface area carbon.

ARL 01-28

Claim 6 (original): The cathode material of claim 5, wherein said high surface area carbon comprises carbon black.

Claim 7 (original): The cathode material of claim 1, wherein said binder comprises a fluoropolymer.

Claim 8 (original): The cathode material of claim 1, wherein said first component comprises MnO₂.

Claim 9 (original): The cathode material of claim 1, wherein said first component comprises 35-45% MnO₂, said second component comprises 22-28% carbon, and said binder comprises 30-40% of a fluoropolymer.

Claim 10 (original): The cathode material of claim 1, wherein said first component comprises 41% MnO₂, said second component comprises 25% carbon black, and said third component comprises 34% of a fluoropolymer.

Claim 11 (currently amended): ~~The cathode material of claim 1, wherein said first component comprises 40% MnO₂, said second component comprises 50% carbon black, and said third component comprises 10% polytetrafluoroethylene.~~

A cathode material for a lithium battery, said cathode material comprising, on a weight basis:

a first component comprising 40% MnO₂;

ARL 01-28

a second component comprising 50% carbon black; and
a third component comprising 10% polytetrafluoroethylene.

Claim 12 (currently amended): ~~The cathode material of claim 1, wherein said first component is present in an amount of 20-60%, said second component is present in an amount of 30-70%, and said binder is present in an amount of 5-15%.~~

The cathode material of claim 1, wherein said first component comprises 35-45% of TiS₂, said second component comprises 22-28% carbon, and said binder comprises 30-40% of a fluoropolymer.

Claim 13 (original): A lithium battery which includes the cathode material of claim 1.

Claim 14 (currently amended) A cathode material for a metal-air battery, said cathode material comprising, on a weight basis:

a first component which is capable of intercalating a metal, said first component being present in an amount which is equal to or greater than 20% 35%, and up to 80 45% of said material;

a second component which comprises an electroactive catalyst which is capable of catalyzing the reduction of oxygen, said second component comprises 40-80 22-28% of said material; and

a binder comprising 5 30-40% of said material.

ARL 01-28

Claim 15 (new): The cathode material of claim 1, wherein said first component comprises 35-45% of MoS₂, said second component comprises 22-28% carbon, and said binder comprises 30-40% of a fluoropolymer.